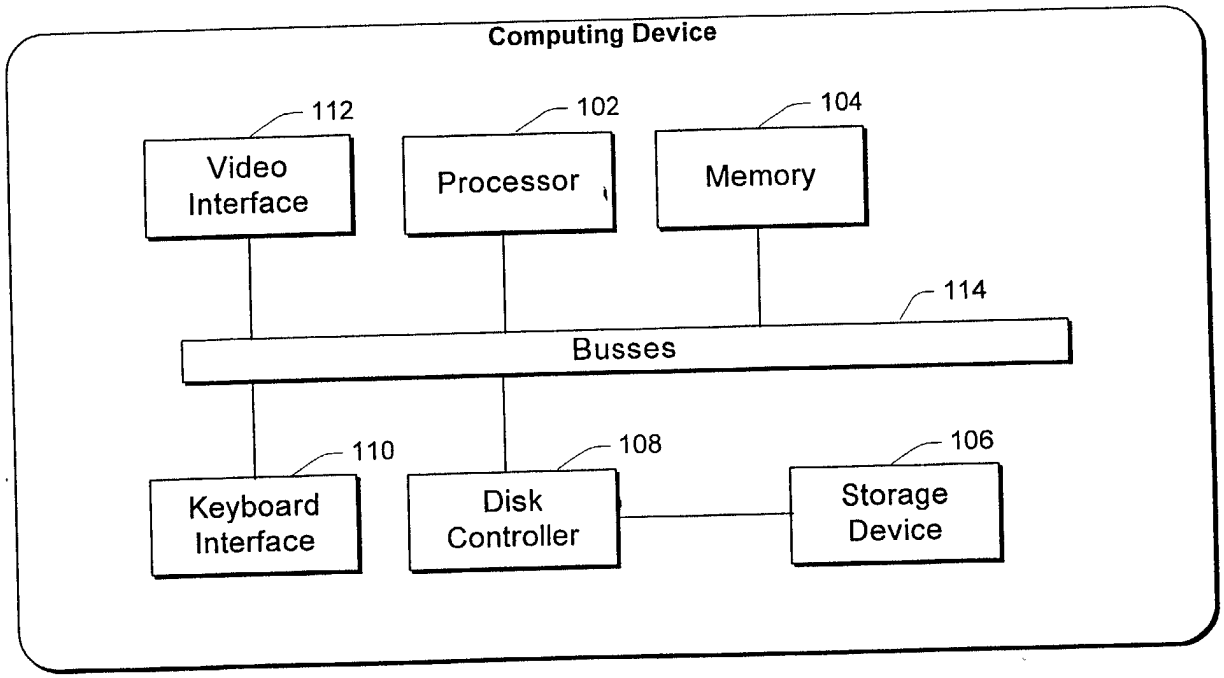

Fig. 1
(prior art)

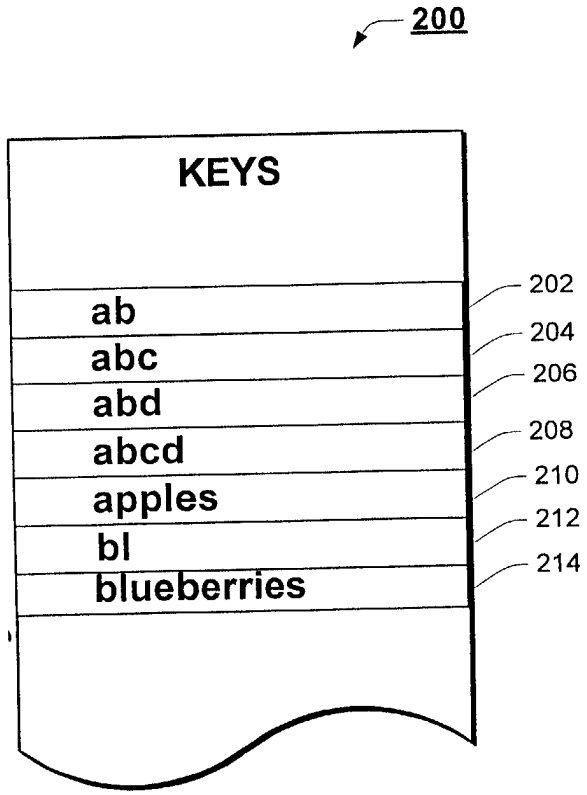

Fig. 2
(prior art)

20070-4926001

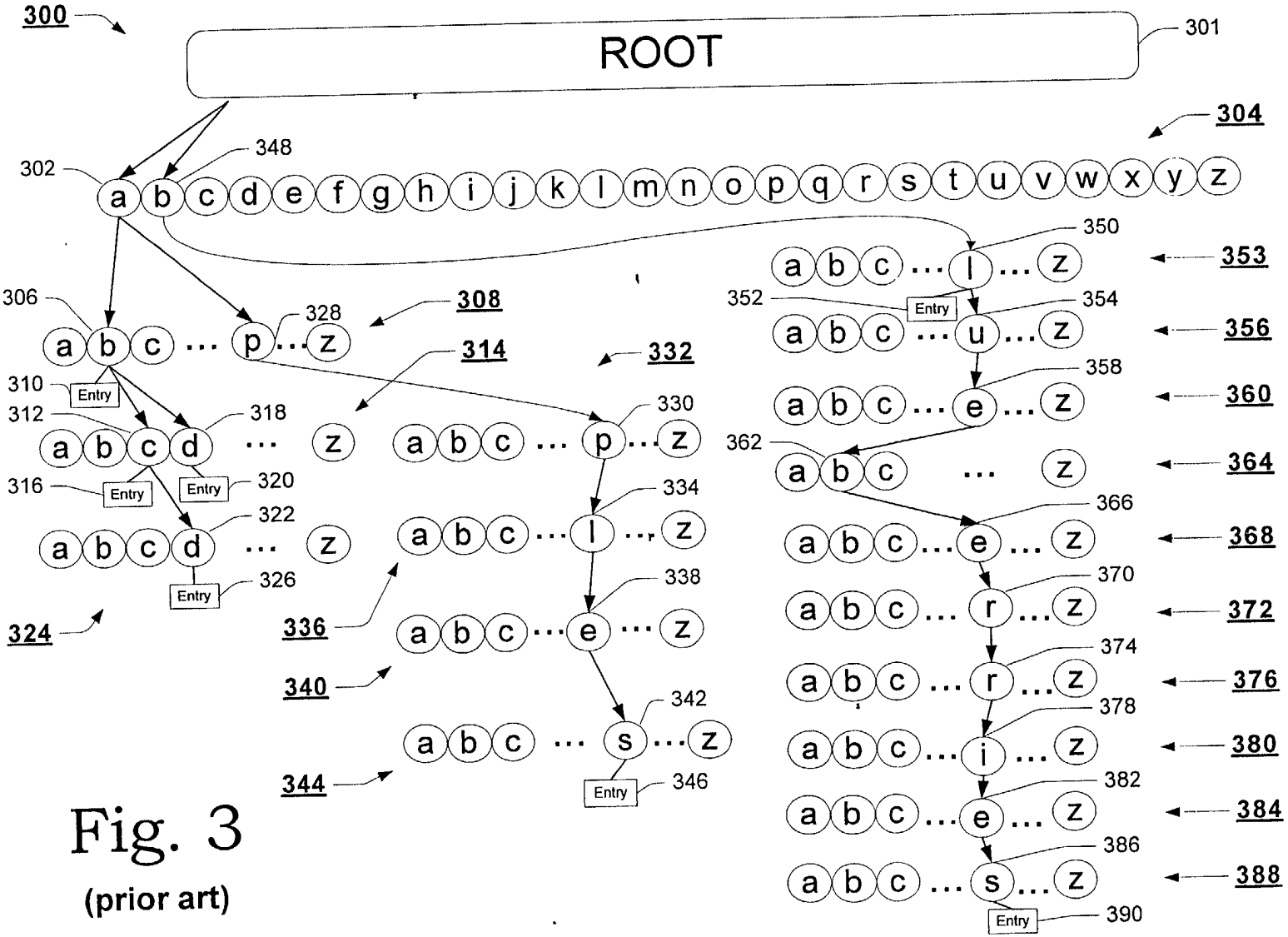

Fig. 3
(prior art)

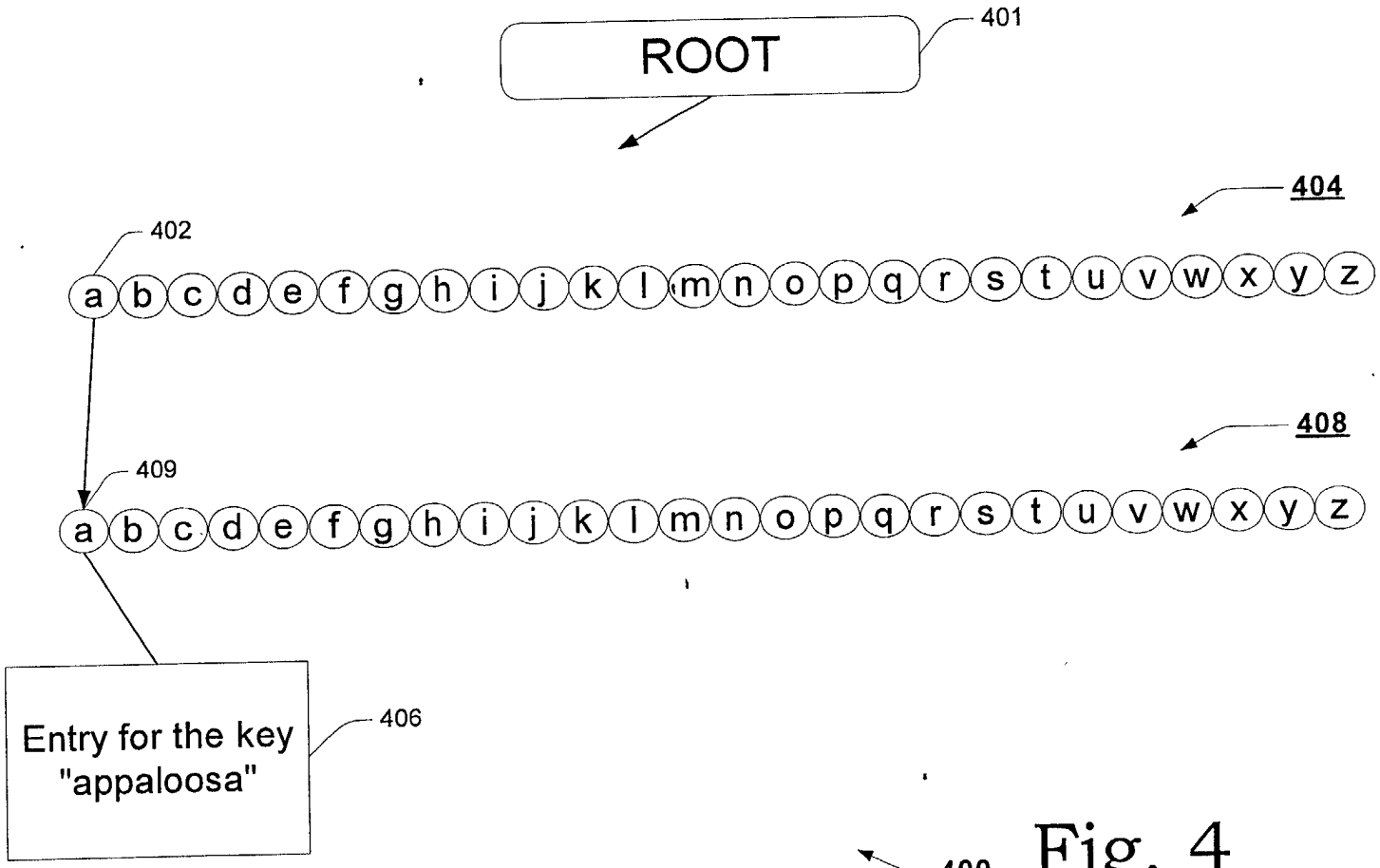
ROOT
401
404
402
a b c d e f g h i j k l m n o p q r s t u v w x y z
408
409
a b c d e f g h i j k l m n o p q r s t u v w x y z
Entry for the key "appaloosa"
406
400

Fig. 4

20020194A1

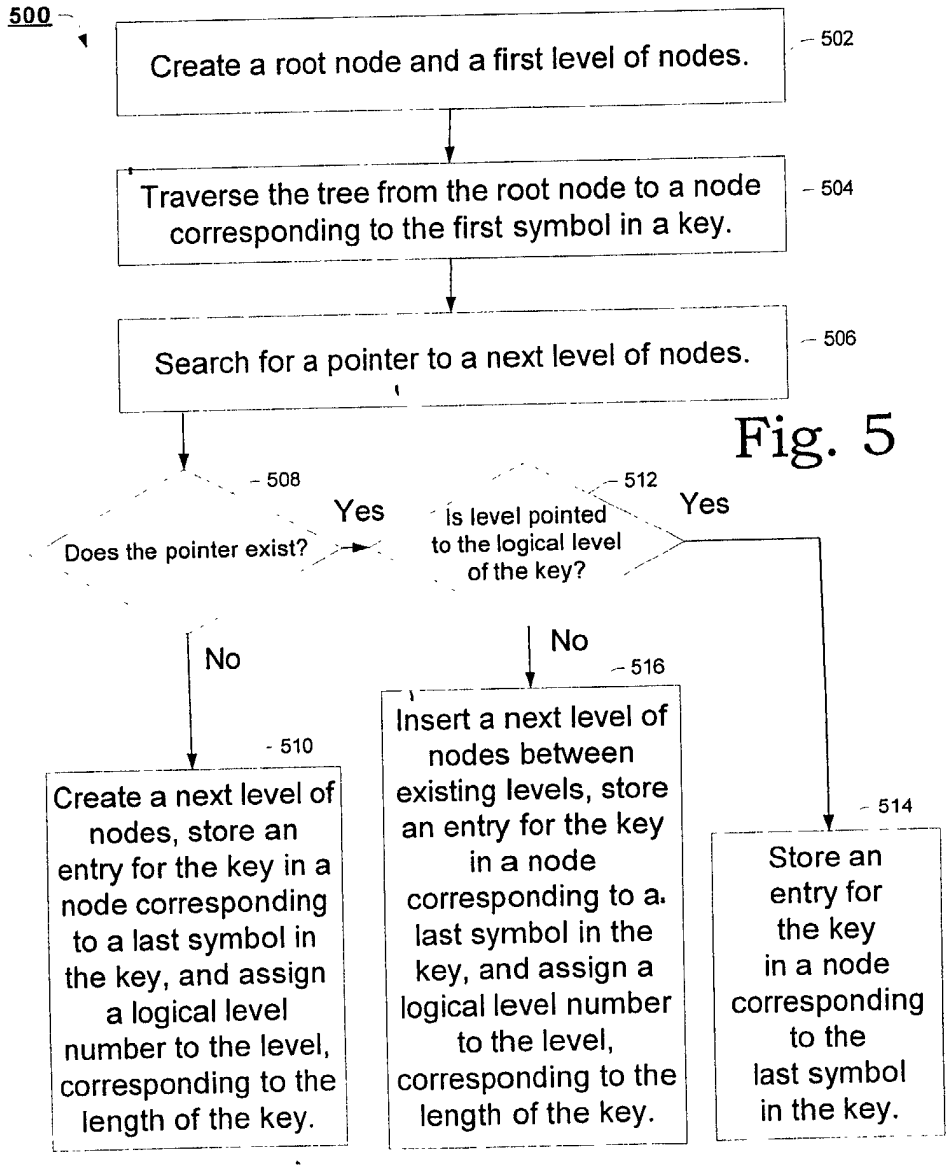

Fig. 5

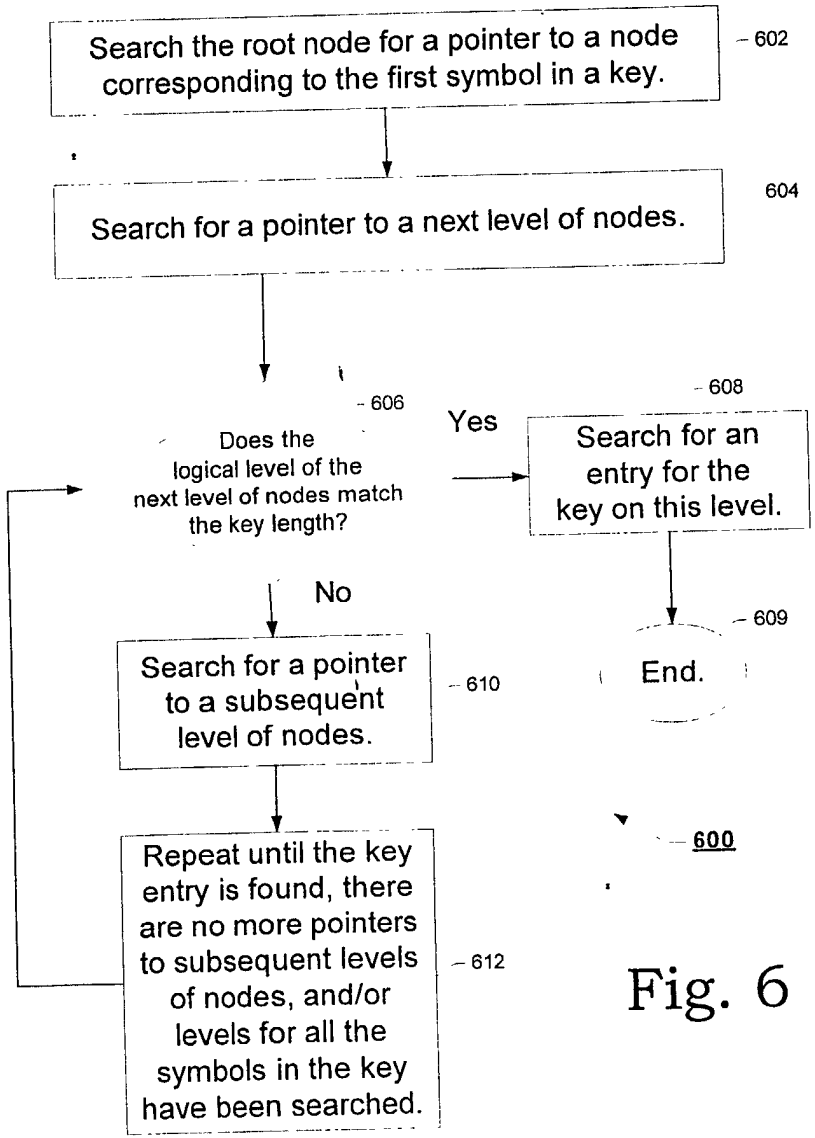
Search the root node for a pointer to a node corresponding to the first symbol in a key.
602
Search for a pointer to a next level of nodes.
604
606
Does the logical level of the next level of nodes match the key length?
Yes
608
Search for an entry for the key on this level.
No
609
End.
Search for a pointer to a subsequent level of nodes.
610
Repeat until the key entry is found, there are no more pointers to subsequent levels of nodes, and/or levels for all the symbols in the key have been searched.
612
600

Fig. 6

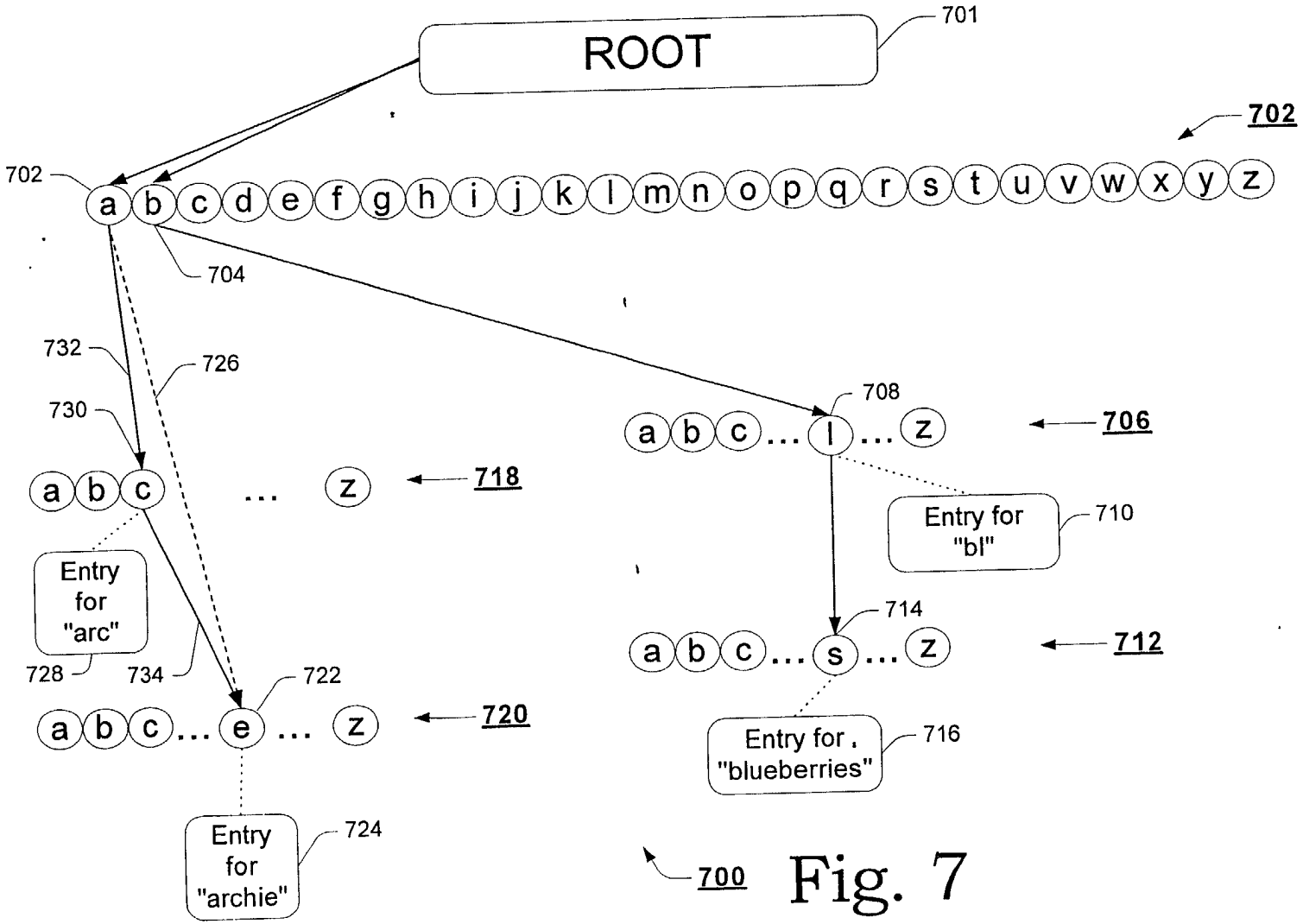
ROOT
701
702
a b c d e f g h i j k l m n o p q r s t u v w x y z
704
732
726
730
708
a b c ... l ... z
706
a b c ... z
718
Entry for "bl"
710
Entry for "arc"
714
a b c ... s ... z
712
728
734
722
a b c ... e ... z
720
Entry for "blueberries"
716
Entry for "archie"
724
700

Fig. 7

20807D "192.6h0T

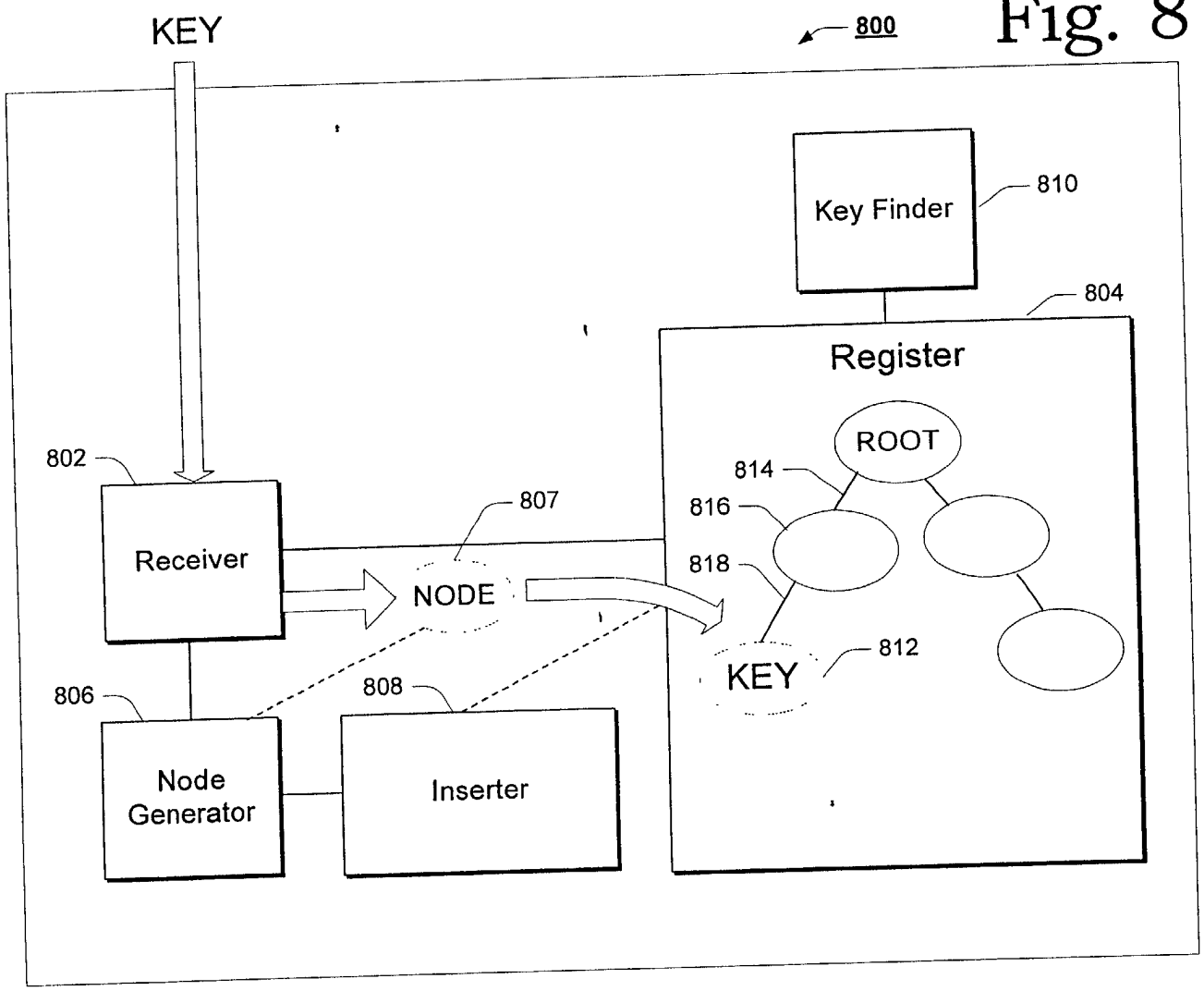

Fig. 8

20070 "192.168.0.1"

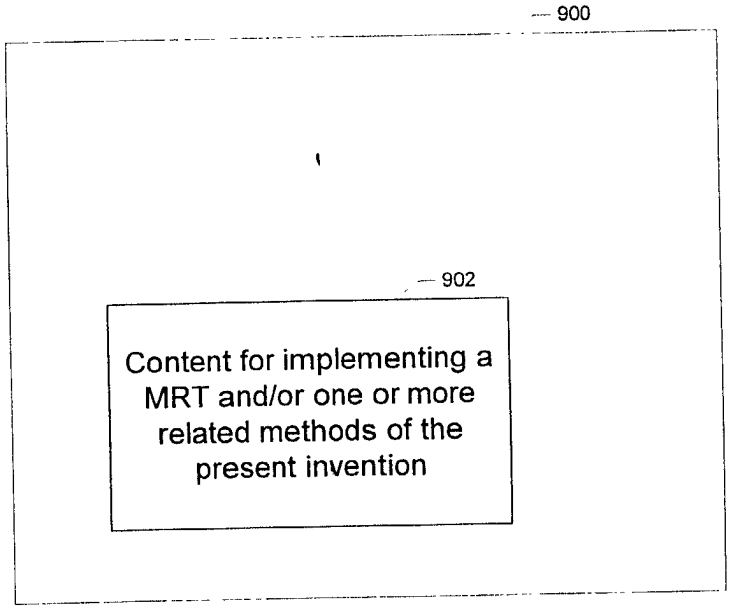

Fig. 9